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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/975,544

10/11/2001

William Robert Hanson

035451-0146 (3683.Palm)

9410

26371

7590

02/07/2005

FOLEY & LARDNER

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MILWAUKEE, WI 53202-5308

EXAMINER

LEWIS, DAVID LEE

ART UNIT

PAPER NUMBER

2673

DATE MAILED: 02/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/975,544

Applicant(s)

HANSON ET AL.

Examiner

David L Lewis

Art Unit

2673

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 17 September 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-40 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-40 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

In view of the persuasive arguments in the Appeal Brief filed on 9/17/2004,
PROSECUTION IS HEREBY REOPENED. A new ground of rejection is set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

(1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,

(2) request reinstatement of the appeal.

If reinstatement of the appeal is requested, such request must be accompanied by a supplemental appeal brief, but no new amendments, affidavits (37 CFR 1.130, 1.131 or 1.132) or other evidence are permitted. See 37 CFR 1.193(b)(2).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. **Claims 1-9, 12-15, 17-19, 22-31, 34-37, 39 and 40 are rejected under 35 U.S.C. 103(a) as being anticipated by Ogura et al. (6189056 B1) in view of Ross et al. (5859629).**

2. **As in claim 1, Ogura et al. teaches of a electronic module, figure 1 and 7, comprising;**
a display housing, **figure 7 item (display housing)**; a display supported by the display housing, **figure 7 item (display)**; an interface housing, **figure 3 item 10, figure 7 item (card connector)**; a processor coupled to the display, **figure 2 item 63**; a power supply coupled to the processor, **figure 2 item 81**; an interface configured to be removably coupled to a computer, **figure 7 item (card connector)**, the interface being incorporated into the interface housing, **figure 3 item 10, figure 7 item (card connector)**; and, a memory coupled to the processor, **figure 2 item 65**. **However Ogura et al. is silent as to wherein the display is smaller than a display for a handheld computer, as well as wherein the interface is configured to be removably coupled to a handheld computer.**
Rosss et at teaches of connecting a PCMCIA interface device to a PDA or handheld computer, column 4 lines 55-65, column 5 lines 22-30. Given that PCMCIA based devices as taught by Ogura et al. are known to interface with handheld PDA computers having a display as taught by Ross et al., **it would have been obvious to the skilled artisan** at the time to the invention to combine the foldable PCMCIA interface device of the Ogura et al. with the PDA of Ross because Ross is designed to receive such devices, as found in claim 1. Further as is generally known in the art, the relative size of a cell phone device display as taught by Ogura et al., figure 7, is smaller than the size of a PDA display screen as taught by Ross et al., figure 2 item 202, wherein the device of Ogura is within the size constraints of the PCMCIA dimensions, and the display of Ross, is bigger than the PCMCIA slot dimensions, figure 2 item 202, and figure 5 item 206, as found in claim 1.

3. **As in claim 19, Ogura et al. teaches of an accessory module for a portable electronic device, figure 1 and 7, comprising: an accessory housing, figure 1 and 7; a processor supported by the accessory housing, figure 2 item 81; an interface for making electrical connection between the processor and a host device, figure 1 item 11; and, an interface housing for supporting the interface, figure 1 item 11, wherein, the interface housing is hinged to the accessory housing such that the interface housing can fold behind the accessory housing, figure 3 item 30, the interface housing can unfold to extend for insertion into an interface slot in a handheld electronic device, figures 1-3 item 30. However Ogura fails to explicitly teach of wherein the interface can be used to couple to the host device when in the folded position. The device of Ogura however can be folded to certain degrees, sufficiently reading on the claims language. Further, Ross et al. teaches of having both a Type II and III PCMCIA slot, while Ogura et al. teaches of said device, figure 7, column 2 lines 35-45, being used in the folded and unfolded positions. Therefore it would have been obvious to the skilled artisan at the time of the invention to connect the device of Ogura et al. to the PDA of Ross et al. in both the folded and unfolded positions, based on the design of both Ogura and Ross, as found in claim 19.**
4. **As in claim 23, Ogura et al. teaches of a portable electronic module for coupling to a host device, comprising: a display housing, figure 1 item 20, figure 7 item (display); a display coupled to the display housing, figure 1 item 21, figure 7 item (display); an**

interface housing, **figure 1 item 10**; an interface configured to be removably coupled to the host device, the interface being incorporated into the interface housing, **figure 1 item 11, figure 7 item (card connector)**; a processor coupled to the interface and the display, **figure 2 item 63**, a memory coupled to the processor, **figure 2 item 65, figure 3 item 51C**, and a power supply coupled to the processor, **figure 2 item 81**. However Ogura et al. fails to specifically teach of connection to a handheld host device. Ross et al. teaches of a handheld PDA host for connection to devices as taught by Ogura et al. having a PCMCIA slot. **Therefore it would have been obvious** to the skilled artisan at the time of the invention to connect to the device as taught by Ogura et al. to the PDA host device of Ross et al. because both Ogura and Ross are designed for said PCMCIA connection, as found in claim 23.

5. **As in claims 2 and 24, Ogura et al. teaches of**, wherein the memory includes Secure Digital (SD) memory, column 2 lines 65-67, wherein flash memory reads on said SD memory. **As in claim 3 and 25, Ogura et al. teaches of**, wherein the interface is configured to be coupled to a slot in a housing of the handheld computer, figure 3 item 11. **As in claim 4 and 26, Ogura et al. teaches of**, wherein the interface is configured to exchange data with a host device through electrical interconnects, figure 3 item 11. **As in claim 5 and 27, Ogura et al. teaches of**, wherein the interface is configured to exchange data with a host device through an optical data link, figure 2 item 71, inherent to interface application. **As in claim 6 and 28, Ogura et al. teaches of**, wherein the display module is powered by an internal battery, column 13 lines 17-22. **As in claim 7 and 29, Ogura**

et al. teaches of wherein the display module is configured to receive power from a host device through the interface, figure 7 item (card connector). **As in claim 8 and 30, Ogura et al. teaches of**, wherein the interface housing is foldably connected to the display housing, figures 1-3 item 30, column 2 lines 35-45. **As in claim 9 and 31, Ogura et al. teaches of**, wherein the display module is configured to be received by a host device when the interface housing is folded behind the display housing, figure 7, column 2 lines 35-45. **As in claim 12 and 34, Ogura et al. teaches of**, wherein the display module further comprises a processing circuit selected from the group consisting of: ASIC, microcontroller, microprocessor, column 14 lines 45-55. **As in claim 13 and 35, Ogura et al. teaches of**, further comprising at least one input/output device, figure 1 item 12. **As in claim 14 and 36, Ogura et al. teaches of**, wherein the at least one input/output device is selected from the group consisting of: touch screens, buttons, dials, switches, and electro-audio transducers, figure 1 items 100. **As in claim 15 and 37, Ogura et al. teaches of**, wherein the display module operates to display information when not coupled to a host device, figure 1 item 21. **As in claim 17 and 39, Ogura et al. teaches of**, further comprising a display controller for controlling the display, column 14 lines 45-55 or figure 1 item 63. **As in claim 18 and 40, Ogura et al. teaches of**, wherein the memory is configured to store and retain data customized to the user, figure 2 item 65 and 66. **As in claim 21, Ogura et al. teaches of**, wherein the hinge includes a plurality of detents, figure 1 item 11. **As in claim 22, Ogura et al. teaches of**, wherein the interface housing is configured to fit a secure digital (SD) slot, column 2 lines 65-67.

6. **Claims 10, 11, 16, 20, 32, 33, and 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ogura et al. (6189056 B1) in view of Ross et al. (5859629), further in view of Kotchick et al. (2003/0016327), Rakib (2002/0044225), and Williams (2002/0063855).**

7. **As in claim 10, 16, 20, 32, and 38, Ogura et al. in view of Ross et al. fails to explicitly teach of** wherein the host device is selected from the group consisting of: mobile telephone, game, toy, e-book, electronic projection device, camera, key fob or pendant, MP3 player, control for home, control for vehicle, remote control for entertainment system, digital sports assistant, pedometer, information technology equipment, and watch. Kotchick et al., paragraphs 33-34, Rakib, paragraphs 1-18, 51, 142, and 143, and Williams, paragraphs 31 and 35, teaches of wherein the host device is selected from the group consisting of: mobile telephone, game, toy, e-book, electronic projection device, camera, key fob or pendant, MP3 player, control for home, control for vehicle, remote control for entertainment system, digital sports assistant, pedometer, information technology equipment, and watch. Wherein as is known in the art of host device of the PDA type, they serve the applications, as found in claims 10, 16, 20, 32, and 38. **As in claim 11 and 33, Ogura et al. teaches of,** wherein the host device is a wearable device, figure 4d, paragraph 33, as does Kotchick et al., paragraphs 33 and 34, and Williams, paragraphs 31 and 35.

8. Applicant's arguments filed 9/17/2004 with respect to claims 1-40 are persuasive, however prosecution has been reopened over Ogura et al. in view of Ross et al.. The Applicant's argument that Ogura failed to teach of a connection to a handheld device is persuasive, however said connection is well known in the art. The Examiner has replaced the 102 rejection with a new non-final 103 rejection given Ogura is lacking said handheld PDA. Ross et al. teaches of a handheld PDA with a PCMCIA slot demonstrative of the fact that the device of Ogura can be used with a handheld PDA in addition to the laptop/notebook computer. Also see the rejection over Ogura et al. in view of Ross et al., further in view of Kotchick et al. , Rakib, and Williams.

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. 2002/0183102, 6234389, 2002/00131162.
10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **David L. Lewis** whose telephone number is (703) 306-3026. The examiner can normally be reached on MT and THF from 8 to 5. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala, can be reached on (703) 305-4938. Any inquiry of a general nature or relating

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to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3900.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231


or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

January 28, 2005



BIPIN SHALWALA
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600